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can further include adding a new set of tags and repeating the sorting process with the same or a different collection capture agents and thereby identifying a protein or molecule of interest.

IN THE CLAIMS:

Please amend claims 1, 16, 38, 44, 45, 46, 67, 68, 72, 88, 94, and 98 as follows:

1. (Amended) A combination, comprising:

a plurality of capture agents, wherein each capture agent specifically binds to a polypeptide; and

a plurality of oligonucleotides that each [comprise] a sequence of nucleotides that encodes a preselected polypeptide,

wherein:

the preselected polypeptides encoded by the oligonucleotides comprise the polypeptides to which the capture agents bind; and

the oligonucleotides are single-stranded, double-stranded or partially double-stranded.

- 16. (Amended) [the] The combination of claim 15, wherein the common region is 3' of the epitope-encoding region and/or of the divider region.
 - 38. (Amended) A set of oligonucleotides comprising formula:

wherein:

each D is a unique sequence among the set of oligonucleotides and contains at least about 10 nucleotides;

each E encodes [an] a sequence of amino acids that comprises epitope; each epitope is unique in the set;

each epitope is a sequence to which a capture agent binds;

each of n and m is, independently, an integer of 2 or higher; and

the oligonucleotides are single-stranded, double-stranded, and/or partially double-stranded.

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- 44. (Amended) A combination of sets of oligonucleotides, comprising the set of oligonucleotide of claim 42 and another set of oligonucleotides of formula:
- [5' C-D_n 3',]5' C-D_n 3', wherein C is a sequence of nucleotides common to all oligonucleotides in the set.
- 45. (Amended) A combination of sets of oligonucleotides, comprising the sets of oligonucleotides of claim 43 and another set of oligonucleotides of formula:
 - 5' C-E_p-FA_s 3', wherein:

 E_p is one of the E_1 - E_m epitope-encoding oligonucleotides;

 $[FA]\underline{FA}_s$ comprises a sequence of nucleotides that contains a sufficient portion of E_p to amplify nucleic acids, if it is used as a primer, that contains E_p , but insufficient to encode the epitope encoded by E_m ;

each of s and p is an integer of [to] 2 or higher up to m.

46. (Amended) A combination of sets of oligonucleotides, comprising the sets of oligonucleotides of claim 44 and another set of oligonucleotides of formula:

5' C-E_p-FA_s 3', wherein:

 E_p is one of the E_1 - E_m epitope-encoding oligonucleotides;

each FA_s comprises a sequence of nucleotides that contains a sufficient portion of E_p to amplify nucleic acids, if it is used as a primer, that contains E_p , but insufficient to encode the epitope encoded by E_m ;

each of s and p is an integer of [to] 2 or higher up to m.

- 67. (Amended) A method for screening a nucleic acid library, comprising:
 - a) creating a tagged library by the method of claim 63;
 - b) translating the library or a sublibrary thereof;
- [b)]c) contacting proteins from the translated library or sublibrary with a collection of capture agents to produce complexes between the tagged proteins and capture agents, wherein:

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each of the capture agents specifically binds to a [polypeptides encoded] polypeptide encoding an E_m ; and

each of the capture agents is identifiable;

- [c)] \underline{d}) screening the complexed capture agents to identify those that have bound to a translated protein of interest, thereby identifying the E_m that is linked to the protein of interest.
 - 68. (Amended) The method of claim 67, further comprising:
- [d)] \underline{e}) isolating the nucleic acid molecules encoding the E_m linked to the protein of interest.
- 72. (Amended) The method of claim [72]71, wherein the particles are optically encoded.
- 88. (Amended) The method of claim 87, wherein the label <u>is</u> optical, chromogenic, luminescent, chemical, fluorescent or electronic.
- 94. (Amended) The combination of claim 29, wherein n is from about 2 up to and including 10⁵.
- 98. (Amended) The method of claim 96, wherein the collection of capture agents [comprise] antibodies.